

Attorney Docket No. 1907.04-1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Zavitz et al.

Application No.: 10/663,407

Filed: September 15, 2003

For: TSG101-GAG INTERACTION
AND USE THEREOF

Group Art Unit: 1646

Examiner: Unknown

CERTIFICATE OF EXPRESS MAIL

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Stacey L. Stamper
Stacey L. Stamper

11/15/04
Date

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97(b)(3)

Mail Stop Amendment
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Sir:

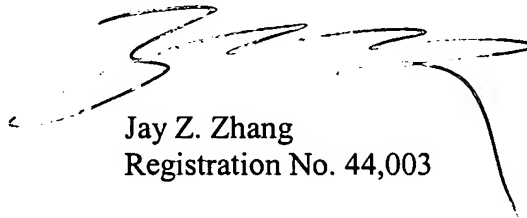
Attached is a list of documents on form PTO/SB/08A. Copies of U.S. patents are not being submitted pursuant to Pre-OG Notices <<http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/idswouscopies.htm>> (visited 9/15/2003). Copies of foreign patent documents and non-patent literature are enclosed pursuant to 37 C.F.R. § 1.98(a)(2).

It is requested that the Examiner consider these documents and officially make them of record in accordance with the provisions of 37 CFR § 1.97 and Section 609 of the MPEP. By submitting the listed documents, Applicants are in no way making any admission as to prior art status of the listed documents, but are instead submitting the listed documents for the sake of full disclosure under 37 CFR § 1.56.

To the best of the undersigned person's knowledge, this Information Disclosure Statement is being submitted in accordance with 37 CFR § 1.97(b)(3), before the mailing of a first Office action on merits.

It is believed that neither an extension of time, nor payment of any fee is required in connection with this communication. However, if an extension of time and corresponding extension fee, or any other fee is required, such an extension of time is hereby petitioned for and the Commissioner is authorized to charge any fees, or credit any overpayment, to Deposit Account No. **50-1627**.

Respectfully submitted,



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Date: November 15, 2004

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	10/663,407	
			Filing Date	September 15, 2003	
			First Named Inventor	Zavitz et al.	
			Art Unit	1646	
			Examiner Name	Unknown	
Sheet	2	of	5	Attorney Docket Number	1907.04-1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		ACCOLA et al., "Efficient Particle Production by Minimal Gag Constructs Which Retain the Carboxy-Terminal Domain of Human Immunodeficiency Virus Type 1 Capsid-p2 and a Late Assembly Domain", <i>Journal of Virology</i> , June 2000, 74(12):5395-5402.	
		ALEXANDER et al., "Unusual Polymorphisms in Human Immunodeficiency Virus Type 1 Associated with Nonprogressive Infection", <i>Journal of Virology</i> , May 2000, 74(9):4361-4376.	
		BABST et al., "Mammalian Tumor Susceptibility Gene 101 (TSG101) and the Yeast Homologue, Vps23p, Both Function in Late Endosomal Trafficking", <i>Traffic</i> , 2000, 1:248-258.	
		BISHOP et al., "TSG101/Mammalian VPS23 and Mammalian VPS28 Interact Directly and Are Recruited to VPS4-induced Endosomes", <i>The Journal of Biological Chemistry</i> , April 13, 2001, 276(15):11735-11742.	
		BUTKIEWICZ et al., "Virus-Specific Cofactor Requirement and Chimeric Hepatitis C Virus/GB Virus B Nonstructural Protein 3" <i>Journal of Virology</i> , May 2000, 74(9):4291-4301.	
		CARTER, "Tsg101: HIV-1's ticket to ride", <i>Trends in Microbiology</i> , May 2002, 10(5):203-205.	
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		FARRAR et al., "Characterisation of a Series of Human Immunodeficiency Virus Isolates Derived Sequentially From a Single Patient", <i>Journal of Medical Virology</i> , 1991, 34:104-113.	
		GARNIER et al., "Identification of Retroviral Late Domains as Determinants of Particle Size", <i>Journal of Virology</i> , March 1999, 73(3):2309-2320.	
		GARRUS et al., "Tsg101 and the Vacuolar Protein Sorting Pathway Are Essential for HIV-1 Budding", <i>Cell</i> , October 5, 2001, 107:55-65.	

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		HARTY et al., "A PPxY motif within the VP40 protein of Ebola virus interacts physically and functionally with a ubiquitin ligase: Implications for filovirus budding", <i>PNAS</i> , December 5, 2000, 97(25):13871-13876.	
		HARTY et al., "A Proline-Rich Motif within the Matrix Protein of Vesicular Stomatitis Virus and Rabies Virus Interacts with WW Domains of Cellular Proteins: Implications for Viral Budding", <i>Journal of Virology</i> , April 1999, 73(4):2921-2929.	
		HARVEY et al., "Nedd4-like proteins: an emerging family of ubiquitin-protein ligases implicated in diverse cellular functions", <i>Trends in Cell Biology</i> , May 1999, 9:166-169.	
		HEINRICHS et al., "In vivo analysis of the functional domains of the Drosophila splicing regulator RBP1", 1997, <i>PNAS</i> , 94:115-120.	
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		JAYAKAR et al., "Mutations in the PPPY Motif of Vesicular Stomatitis Virus Matrix Protein Reduce Virus Budding by Inhibiting a Late Step in Virion Release", <i>Journal of Virology</i> , November 2000, 74(21):9818-9827.	
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		LUBAN, "HIV-1 and Ebola virus: The getaway driver nabbed", <i>Nature Medicine</i> , December 2001, 7(12):1278-1280.	
		MARTIN-SERRANO et al., "HIV-1 and Ebola virus encode small peptide motifs that recruit Tsg101 to sites of particle assembly to facilitate egress", <i>Nature Medicine</i> , December 2001, 7(12):1313-1319.	
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		NCBI Entrez Protein Database Accession No.: AAB38034, December 5, 1996.	
		NCBI Entrez Protein Database Accession No.: AAB83138, November 6, 1997.	
		NCBI Entrez Protein Database Accession No.: AAB83216, November 6, 1997.	

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		NCBI Entrez Protein Database Accession No.: AAB83821, November 6, 1997.	
		NCBI Entrez Protein Database Accession No.: AAD03232, January 6, 1999.	
		NCBI Entrez Protein Database Accession No.: AAD03240, January 6, 1999.	
		NCBI Entrez Protein Database Accession No.: AAD17020, June 1, 2001.	
		NCBI Entrez Protein Database Accession No.: AAF35354, February 23, 2000.	
		NCBI Entrez Protein Database Accession No.: CAB92786, September 20, 2000.	
		NCBI Entrez Protein Database Accession No.: P35962, July 15, 1998.	
		OTT et al., "Ubiquitin Is Covalently Attached to the p6 ^{Gag} Proteins of Human Immunodeficiency Virus Type 1 and Simian Immunodeficiency Virus and to the p12 ^{Gag} Protein of Moloney Murine Leukemia Virus", <i>Journal of Virology</i> , April 1998, 72(4):2962-2968.	
		PARENT et al., "Positionally Independent and Exchangeable Late Budding Functions of the Rous Sarcoma Virus and Human Immunodeficiency Virus Gag Proteins", <i>Journal of Virology</i> , September 1995, 69(9):5455-5460.	
		PATNAIK et al., "Ubiquitin is part of the retrovirus budding machinery", <i>PNAS</i> , November 21, 2000, 97(24):13069-13074.	
		PORNILLOS et al., Structure and functional interactions of the Tsg101 UEV domain", <i>The EMBO Journal</i> , 2002, 21(10):2397-2406.	
		PORNILLOS et al., "Structure of the Tsg101 UEV domain in complex with the PTAP motif of the HIV-1 p6 protein", <i>Nature Structural Biology</i> , November 2002, 9(11):812-817.	
		PUFFER et al., "Equine Infectious Anemia Virus Gag Polyprotein Late Domain Specifically Recruits Cellular AP-2 Adapter Protein Complexes during Virion Assembly", <i>Journal of Virology</i> , December 1998, 72(12):10218-10221.	
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		ROSSI, "Therapeutic applications of catalytic antisense RNAs (ribozymes)", <i>CIBA Foundation Symposium</i> , 1997, 209:195-206.	
		SAVARINO et al., "The Biochemistry of Gene Therapy for AIDS", <i>Clin. Chem. Lab. Med.</i> , 1998, 36(4):205-210.	

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		SCHUBERT et al., "Proteasome inhibition interferes with Gag polypeptide processing, release, and maturation of HIV-1 and HIV-2", <i>PNAS</i> , November 21, 2000, 97(24):13057-13062.		
		SORKINA et al., "Clathrin, adaptors and eps15 in endosomes containing activated epidermal growth factor receptors", <i>Journal of Cell Science</i> , 1999, 112:317-327.		
		STRACK et al., "A role for ubiquitin ligase recruitment in retrovirus release", <i>PNAS</i> , November 21, 2000, 97(24):13063-13068.		
		VERKHIVKER, "Towards understanding the mechanisms of molecular recognition by computer simulations of ligand-protein interactions", <i>Journal of Molecular Recognition</i> , 1999, 12:371-389.		
		VERPLANK et al., "Tsg101, a homologue of ubiquitin-conjugating (E2) enzymes, binds the L domain in HIV type 1 Pr55Gag", <i>PNAS</i> , July 3, 2001, 98(14):7724-7729.		
		VOGT., "Ubiquitin in retrovirus assembly: Actor or bystander?", <i>PNAS</i> , November 21, 2000, 97(24):12945-12947.		
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		YASUDA et al., "A Proline-Rich Motif (PPPY) in the Gag Polyprotein of Mason-Pfizer Monkey Virus Plays a Maturation-Independent Role in Virion Release", <i>Journal of Virology</i> , May 1998, 72(5):4095-4103.		
		YUAN et al., "Infectivity of Moloney Murine Leukemia Virus Defective in Late Assembly Events Is Restored by Late Assembly Domains of Other Retroviruses", <i>Journal of Virology</i> , August 2000, 74(16):7250-7260.		
		YUAN et al., "Mutations altering the Moloney murine leukemia virus p12 Gag protein affect virion production and early events of the virus life cycle", <i>The EMBO Journal</i> , 1999, 18(17):4700-4710.		
		ZHANG et al., "Drug Resistance during Indinavir Therapy Is Caused by Mutations in the Protease Gene and in Its Gag Substrate Cleavage Sites", <i>Journal of Virology</i> , September 1997, 71(9):6662-6670.		

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